

# THE ECTOPARASITIC MITES OF TASMANIAN VERTEBRATE ANIMALS

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## ABSTRACT

Eighty-eight species of ectoparasitic mites in 41 genera and 15 families are recorded from Tasmanian vertebrate animals. The hosts from which these were collected are given, followed by the authority and relevant reference for the record.

A host list of 29 mammals, 23 birds and five reptiles is given together with the mite species recorded from each.

## INTRODUCTION

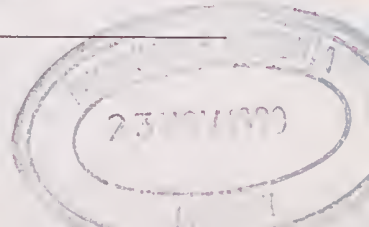
The Author's interest in the ectoparasites of Tasmanian native and feral fauna commenced in the 1950's when he started collecting material from animals salvaged for preservation in his own and various museum collections. These were bulk preserved in 70% alcohol and sent to Dr. J. H. Calaby, C.S.I.R.O., Canberra who in turn sorted and forwarded them to appropriate authorities and who subsequently provided information on identity and some aspects of their significance.

Following an appointment as zoologist with the Queen Victoria Museum in 1961 and the opportunity to process an increasing number of animals, the collections rapidly expanded and these were then posted directly to relevant taxonomists, mites going to Dr. Robert Domrow, Queensland Institute of Medical Research, Brisbane. Dr. Domrow's interest and enthusiasm in the content of the consignments and his many publications describing new and little known mites served to further stimulate collecting and this, together with additional material collected by others in Tasmania, has promoted the development of a greater knowledge of the ectoparasitic mites occurring in Tasmania.

The first list of Tasmanian mites was published by Green and Munday (1971), and the present publication is an endeavour to expand and revise that work. The roll of the author in this project has been as a facilitator to allow others to undertake more detailed taxonomic research on this group. The arrangement of the present list is therefore the result of helpful criticism and suggestions of others who are more specialised in this field and who are gratefully acknowledged elsewhere.

The systematic list of mites includes also the names of hosts from which they have been collected, followed by references to the authority for the record. For convenience a cross reference of Tasmanian hosts from which the various species have been collected is also given.

Most of the material collected by the Author has been lodged in the Queen Victoria Museum, Launceston and the Queensland Institute of Medical Research, Brisbane, the latter repository as grateful acknowledgement of the researches of Dr. Domrow. Some type material has been lodged in other appropriate Institutions, at the discretion of Dr. Domrow and these are named in the relevant published descriptions.



Class: ARACHNIDA  
Order: MESOSTIGMATA  
Family: LAELAPIDAE

Genus *Andreacarus*

*A. anadema* Domrow, 1963

*Mastacomys fuscus*;  
Domrow, 1978.

*A. radfordi* Domrow, 1963

*Cercartetus lepidus*;  
Domrow, 1963a.

*Dasyurus viverrinus*;  
Domrow, 1963a.

*Sminthopsis leucopus*;  
Domrow, 1972.

*Hydromys chrysogaster*;  
Domrow, 1977.

*A. synoecus* Domrow, 1978

*Mastacomys fuscus*;  
Domrow, 1987.

*Pseudomys higginsii*;  
Domrow, 1978.

Genus *Domrownyssus*

*D. dentatus* (Domrow, 1961)

*Antechinus minimus*;  
Domrow, 1961.

*Antechinus swainsonii*;  
Domrow, 1987.

Genus *Gymnolaelaps*

*G. annectans* Womersley, 1955

*Isoodon obesulus*;  
Domrow, 1963b.

*Antechinus swainsonii*;  
Domrow, 1987.

*Antechinus minimus*;  
Domrow, 1987.

*Rattus lutreolus*;  
Domrow, 1987.

*Rattus rattus*;  
Domrow, 1987.

*Rattus norvegicus*;  
Domrow, 1987.

*Hydromys chrysogaster*;  
Domrow, 1987.

*Mastacomys fuscus*;  
Domrow, 1987.

*Lepus capensis*;  
Domrow, 1987.

*Oryctolagus cuniculus*;  
Domrow, 1987.

*Eudyptula minor*;  
Domrow, 1987.

*Puffinus tenuirostris*;  
Domrow, 1987.

Genus           *Haemolaelaps*

*H. domrowi* Womersley, 1958

*Perameles gunnii*;  
Domrow, 1961.

*Rattus rattus*;  
Domrow, 1987.

*Mus musculus*;  
Domrow, 1987.

*H. fahrenheitzi* (Berlese, 1911)

*Eudyptula minor*;  
Domrow, 1987.

*Pachyptila turtur*;  
Domrow, 1973.

*Puffinus tenuirostris*;  
Domrow, 1987.

*Hydroprogne caspia*;  
Domrow, 1987.

*H. flagellatus* Womersley, 1958

*Potorous apicalis*;  
Domrow, 1987.

*Vombatus ursinus*;  
Domrow, 1987.

*Isoodon obesulus*;  
Domrow, 1987.

*Sarcophilus harrisii*;  
Domrow, 1977.

*Sminthopsis leucopus*;  
Domrow, 1987.

*Tachyglossus aculeatus*;  
Domrow, 1973.

*Eudyptula minor*;  
Domrow, 1977.

*Pachyptila turtur*;  
Domrow, 1977.

*Puffinus tenuirostris*;  
Domrow, 1977.

*H. hattenae* Domrow, 1963

*Bettongia gaimardi*;  
Domrow, 1963b.

*H. marsupialis* (Berlese, 1910)

*Isoodon obesulus*;  
Domrow, 1961.

*Perameles gunnii*;  
Domrow, 1961.

*H. pachyptilae* Zumpt and Till, 1956

*Eudyptula minor*;  
Domrow, 1977.

*Pachyptila turtur*;  
Domrow, 1977.

*Puffinus tenuirostris*;  
Domrow, 1977.

*Pelecanoides urinatrix*;  
Domrow, 1977.



*H. ulysses* Domrow, 1961

*Pseudocheirus peregrinus*;  
Domrow, 1987.

Genus *Hypoaspis*

*H. acme* Womersley, 1955

*Puffinus tenuirostris*;  
Domrow, 1987.

Genus *Laelaps*

*L. assimilis* Womersley, 1956

*Rattus lutreolus*;  
Domrow, 1961.

*Rattus rattus*;  
Domrow, 1987.

*Mastacomys fuscus*;  
Domrow, 1987.

*L. calabyi* Domrow, 1961

*Pseudomys higginsii*;  
Domrow, 1961.

*Rattus rattus*;  
Domrow, 1987.

*L. cybiala* Domrow, 1963

*Mastacomys fuscus*;  
Domrow, 1963b.

Genus *Laelapsella*

*L. humi* Womersley, 1955

*Trichosurus vulpecula*;  
Domrow, 1987.

*Antechinus swainsonii*;  
Domrow, 1987.

*Rattus lutreolus*;  
Domrow, 1963b.

*Rattus norvegicus*;  
Domrow, 1973.

*Hydromys chrysogaster*;  
Munday, 1966.

*Mastacomys fuscus*;  
Domrow, 1987.

*Puffinus tenuirostris*;  
Domrow, 1987.

Genus *Mesolaelaps*

*M. antipodians* (Hirst, 1926)

*Isoodon obesulus*;  
Domrow, 1961.

*Perameles gunnii*;  
Domrow, 1963b.

*Oryctolagus cuniculus*;  
Domrow, 1961.

*M. australiensis* (Hirst, 1926)

*Perameles gunnii*;  
Domrow, 1987.

*Dasyurus viverrinus*;  
Domrow, 1961.

*Rattus lutreolus*;  
Domrow, 1987.

*Rattus rattus*;  
Domrow, 1987.

*Hydromys chrysogaster*;  
Domrow, 1987.

*Mus musculus*;  
Domrow, 1987.

*Oryctolagus cuniculus*;  
Domrow, 1987.

*Eudyptula minor*;  
Domrow, 1987.

*Puffinus tenuirostris*;  
Domrow, 1987.

*M. bandicoota* (Womersley, 1956)

*Dasyurus viverrinus*;  
Domrow, 1973.

*Rattus lutreolus*;  
Domrow, 1963b.

*Hydromys chrysogaster*;  
Domrow, 1987.

Genus *Eulaelaps*

*E. oudemansi* Domrow, 1973

*Mus musculus*;  
Domrow, 1987.

*Felis catus*;  
Domrow, 1987

Genus *Myonyssus*

*M. decumani* Tiraboschi, 1904

*Isoodon obesulus*;  
Domrow, 1963b.

Genus *Echinonyssus*

*E. butantanensis* (da Fonseca, 1932)

*Rattus rattus*;  
Domrow, 1987.

*Mus musculus*;  
Domrow, 1963b.

Genus *Thadeua*

*T. greeni* (Domrow, 1966)

*Bettongia gaimardi*;  
Domrow, 1966a.

*T. mitchelli* (Womersley, 1956)

*Macropus rufogriseus*;  
Domrow, 1973.

*Thylogale billardierii*;  
Domrow, 1987.

*T. serrata* Domrow, 1977

*Macropus rufogriseus*;  
Domrow, 1987.

*T. validipes* (Domrow, 1955)

*Potorous apicalis*;  
Domrow, 1973.

Genus *Trichosurolaelaps*

*T. crassipes* Womersley, 1956

*Trichosurus vulpecula*;  
pers. comm. Calaby.

*T. striatus* Domrow, 1958

*Pseudocheirus peregrinus*;  
Domrow, 1961.

Genus *Orthohalarachne*

*O. attenuata* (Banks, 1910)

*Arctocephalus pusillus*;  
Domrow, 1987.

# Family: RHINONYSSIDAE

Genus *Ophionyssus*

*O. scincorum* Domrow, Heath and Kennedy, 1980

*Leiopisma pretiosum*;  
Domrow, 1987.

Genus *Ornithonyssus*

*O. bursa* (Berlese, 1888)

*Homo sapiens*;  
Domrow, 1966b.

*O. dasyuri* Domrow, 1983

*Dasyurus viverrinus*;  
Domrow, 1983.

*Sarcophilus harrisii*;  
Domrow, 1987.

*O. sylviarum* (Canestrini and Fanzago, 1877)

*Dacelo novaeguineae*  
Domrow, 1987.

*Hirundo neoxena*;  
Domrow, 1987.

*Turdus merula*;  
Domrow, 1966b.

*Pachycephala pectoralis*;  
Domrow, 1987.

*Megalurus gramineus*;  
Domrow, 1973.

*Anthochaera chrysoptera*;  
Domrow, 1987.

*Manorina melanocephala*;  
Domrow, 1987.

*Passer domesticus*;  
Domrow, 1963b.

*Sturnus vulgaris*;  
Domrow, 1987.

*Artamus cyanopterus*;  
Domrow, 1987.

*Gallus domesticus*;  
Domrow, 1987.

*Sirinus canaria*;  
Domrow, 1987.

Genus *Trichonyssus*

*T. caputmedusae* Domrow, 1986

*Falsistrellus tasmaniensis*;  
Domrow, 1986.

*Eptesicus sagittula*;  
Domrow, 1986.

*T. womersleyi* Domrow, 1959

*Nyctophilus geoffroyi*;  
pers. comm. Womersley.

*Chalinolobus gouldii*;  
Domrow, 1986.

*Eptesicus* sp.;  
pers. comm. Womersley.

*Falsistrellus tasmaniensis*;  
pers. comm. Domrow.

Genus *Rallinyssus*

*R. congolensis* Fain, 1956

*Porzana tabuensis*;  
Domrow, 1973.

*R. gallinulae* Fain, 1960

*Rallus pectoralis*;  
Domrow, 1973.

Genus *Sternostoma*

*S. tracheacolum* Lawrence, 1948

*Serinus canaria*; (caged)  
Domrow, 1987.

Family: DERMANYSSIDAE

Genus *Dermanyssus*

*D. gallinae* (De Geer, 1778)

*Homo sapiens*;  
Domrow, 1987.

*D. hirundinis* (Hermann, 1804)

*Lichenostomus flavicollis*;  
Domrow, 1963b.

Family: SPINTURNICIDAE

Genus *Spinturnix*

*S. novaehollandiae* Hirst, 1931

*Nyctophilus geoffroyi*;  
Domrow, 1987.

*Eptesicus regulus*;  
Domrow, 1987.

*Falsistrellus tasmaniensis*;  
Domrow, 1987.

Family: TROMBICULIDAE

Genus *Eutrombicula*

*E. vandiemeni* (Domrow, 1962)

*Egernia whitii*;  
Domrow & Lester, 1985.

*Leiolopisma entrecasteauxii*;  
Domrow & Lester, 1985.

*Leiolopisma metallicum*;  
Domrow & Lester, 1985.

*Leiolopisma ocellatum*;  
Domrow & Lester, 1985.



Genus                      *Neotrombicula*

*N. novaehollandiae* Hirst, 1929)

*Macropus rufogriseus*;  
Domrow & Lester, 1985.

*Thylogale billardierii*;  
Domrow & Lester, 1985.

*Potorous apicalis*;  
Domrow & Lester, 1985.

*Isoodon obesulus*;  
Domrow & Lester, 1985.

*Dasyurus maculatus*;  
Domrow & Lester, 1985.

*Dasyurus viverrinus*;  
Domrow & Lester, 1985.

*Antechinus swainsonii*;  
Domrow & Lester, 1985.

*Antechinus minimus*;  
Domrow & Lester, 1985.

*Rattus lutreolus*;  
Domrow & Lester, 1985.

*Tachyglossus aculeatus*;  
Domrow & Lester, 1985.

Genus                      *Ascoshengastia*

*A. rattus* (Womersley & Heaslip, 1943)

*Trichosurus vulpecula*;  
Domrow & Lester, 1985.

*Hydromys chrysogaster*;  
Domrow & Lester, 1985.

*Rattus rattus*;  
Domrow & Lester, 1985.

Genus                      *Trombicula*

*T. quadriensis* Womersley & Heaslip, 1943

*Trichosurus vulpecula*;  
Domrow & Lester, 1985.

*Antechinus minimus*;  
Domrow & Lester, 1985.

*Hydromys chrysogaster*;  
Domrow & Lester, 1985.

Genus *Guntheria*

*G. quatuor* Domrow, 1972

*Sminthopus leucopus*;  
Domrow & Lester, 1985.

*Rattus lutreolus*;  
Domrow & Lester, 1985.

*G. kallipygos* (Gunther, 1939)

*Thylogale billardierii*;  
Domrow & Lester, 1985.

*Potorous apicalis*;  
Domrow & Lester, 1985.

*Trichosurus vulpecula*;  
Domrow & Lester, 1985.

*Rattus lutreolus*;  
Domrow & Lester, 1985.

Family: ATOPOMELIDAE

Genus *Campylochirus*

*C. brevipenis* Fain & Domrow, 1976

*Pseudocheirus peregrinus*;  
Fain & Domrow, 1976.

*C. chelopus* Trouessart, 1893

*Pseudocheirus peregrinus*;  
Domrow, 1958.

Genus *Cytostethum*

*C. dendriticum* Fain & Domrow, 1974

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. domrowi* Fain, 1972

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. charactum* Domrow, 1956

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. gracile* Fain & Domrow, 1974

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. hamatum* Fain & Domrow, 1974

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. intermedium* Fain & Domrow, 1974

*Bettongia gaimardi*;  
Fain & Domrow, 1974b.

*C. inerme* Fain & Domrow, 1974

*Thylogale billardierii*;  
Fain & Domrow, 1974b.

*C. macropus* Fain, 1970

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. maydenenses* Fain & Domrow, 1974

*Thylogale billardierii*;  
Fain & Domrow, 1974b.

*C. mesocharactum* Fain & Domrow, 1974a

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. mollisoni* Domrow, 1961

*Potorous apicalis*;  
Domrow, 1961.

*C. nanophyes* Domrow, 1956

*Potorous apicalis*;  
Domrow, 1956.

*C. postscutatum* Fain & Domrow, 1974

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. postsquamatum* Fain & Domrow, 1974

*Thylogale billardierii*;  
Fain & Domrow, 1974b.

*C. potorous* Fain & Domrow, 1974

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. procharactum* Fain & Domrow, 1974

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. promeces* Domrow, 1956

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. pseudocharactum* Fain & Domrow, 1974

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. pseudotubiferum* Fain & Domrow, 1974

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. spinulatum* Fain & Domrow, 1974

*Potorous apicalis*;  
Fain & Domrow, 1974a.

*C. thylogale* Fain, 1970

*Thylogale billardierii*;  
Fain & Domrow, 1974b.

*Bettongia gaimardi*;  
Fain & Domrow, 1974b.

*C. tasmaniense* Fain & Domrow, 1974

*Bettongia gaimardi*  
Fain & Domrow, 1974b.

*C. tubiferum* Fain & Domrow, 1974

*Potorous apicalis*;  
Fain & Domrow, 1974a.

Family: PSOROPTIDAE

Genus *Acaroptes*

*A. vombatus* Womersley, 1953

*Vombatus ursinus*;  
pers. comm. Calaby.

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Family: PSOREGATIDAE

Genus *Psorobia*

*P. ovis* (Womersley, 1941)

*Ovis aries*; (Domestic)  
Seddon, 1968.

Family: DEMODICIDAE

Genus *Demodex*

*D. phylloides* Csokor, 1879

*Sus scrofa*; (Domestic)  
Seddon, 1968.

Family: SARCOPTIDAE

Genus *Diaboliocptes*

*D. sarcophilus* Fain & Domrow, 1974

*Sarcophilus harrisii*;  
Fain & Domrow, 1974c.

Genus *Satanicoptes*

*S. armatus* Fain & Laurence, 1975

*Sarcophilus harrisii*;  
Fain & Laurence, 1975.

Genus *Scarpotes*

*S. scabiei* (Linnaeus, 1758)

*Vombatus ursinus*;  
pers. comm. Domrow.

Genus *Trixacarus*

*T. caviae* (Fain, Hovell & Hyatt, 1972)

*Cavia porcellus*; (Pet)  
pers. comm. Domrow.

Family: KNEMIDOKOPIIDAE

Genus *Knemidocoptes*

*K. intermedius* Fain & Macfarlane, 1967

*Corvus tasmanicus*;  
pers. comm. Domrow.

## Family: HYPODERATIDAE

Genus *Neottialges**N. evansi* Fain, 1979*Phalacrocorax carbo*;  
Fain & Domrow, 1979.*N. tasmaniensis* Fain & Domrow, 1979*Leucocarbo fuscescens*;  
Fain & Domrow, 1979.

## Family: CYTODITIDAE

Genus *Cytodites**C. undus* (Vizioli, 1870)*Gallus domesticus*;  
pers. comm. Domrow.

## Family: CAMINOSIOPTIDAE

Genus *Caminopioptes**C. cysticola* (Vizioli, 1870)*Gallus domesticus*;  
pers. comm. Domrow.

## Family: ATOPOMELIDAE

Genus *Peterogalochirus**P. macropus* Fain & Domrow, 1974*Macropus rufogriseus*;  
Fain & Domrow, 1974c.

## Family: CHEYLETIDAE

Genus *Neochyletiella**N. artami* Domrow, 1961*Artamus cyanopterus*;  
Domrow, 1966b.Genus *Cheyletiella**C. blakei* Smiley, 1970*Felis catus*;  
pers. comm. Domrow.



## HOST — PARASITE LIST

## MAMMALS

*Macropus rufogriseus*

*Thadeua mitchelli*  
*Thadeua serrata*  
*Neotrombicula novaehollandiae*  
*Peterogalochirus macropus*

*Thylogale billardieri*

*Thadeua mitchelli*  
*Neotrombicula novaehollandiae*  
*Guntheria kallipygos*  
*Cytostethum inerme*  
*Cytostethum maydenenses*  
*Cytostethum postsquamatum*  
*Cytostethum thylogale*

*Bettongia gaimardi*

*Haemolaelaps hattenae*  
*Thadeua greeni*  
*Cytostethum intermedium*  
*Cytostethum thylogale*  
*Cytostethum tasmaniensis*

*Potorous apicalis*

*Haemolaelaps flagellatus*  
*Thadeua validipes*  
*Neotrombicula novaehollandiae*  
*Cytostethum dendriticum*  
*Cytostethum domrowi*  
*Cytostethum charactum*  
*Cytostethum gracile*  
*Cytostethum hamatum*  
*Cytostethum inerme*  
*Cytostethum intermedium*  
*Cytostethum macropus*  
*Cytostethum maydenensis*  
*Cytostethum mesocharactum*  
*Cytostethum mollisoni*  
*Cytostethum nanophyes*  
*Cytostethum postscutatum*  
*Cytostethum postsquamatum*  
*Cytostethum potorous*  
*Cytostethum procharactum*  
*Cytostethum promeces*  
*Cytostethum pseudocharactum*  
*Cytostethum pseudotubiferum*  
*Cytostethum spinulatum*  
*Cytostethum tasmaniensis*  
*Cytostethum thylogale*  
*Cytostethum tubiferum*

*Trichosurus vulpecula*

*Laelapsella humi*  
*Trichosurolaelaps crassipes*  
*Ascoschengastia rattus*  
*Trombicula quadriensis*  
*Guntheria kallipygos*

*Pseudocheirus peregrinus*

*Haemolaelaps ulysses*  
*Trichosurolaelaps striatus*  
*Campylochirus brevipenis*  
*Campylochirus chelopus*

*Cercartetus lepidus*

*Andreacarus radfordi*

*Vombatus ursinus*

*Haemolaelaps flagellatus*  
*Acaroptes vombatus*  
*Sarcoptes scabiei*

*Isodon obesulus*

*Gymnolaelaps annectans*  
*Haemolaelaps flagellatus*  
*Haemolaelaps marsupialis*  
*Mesolaelaps antipodius*  
*Myonyssus decumani*  
*Neotrombicula novaehollandiae*

*Perameles gunnii*

*Haemolaelaps domrowi*  
*Haemolaelaps marsupialis*  
*Mesolaelaps antipodius*  
*Mesolaelaps australiensis*

*Dasyurus maculatus*

*Neotrombicula novaehollandiae*

*Dasyurus viverrinus*

*Andreacarus radfordi*  
*Mesolaelaps australiensis*  
*Mesolaelaps bandicoota*  
*Ornithonyssus dasyuri*  
*Neotrombicula novaehollandiae*

*Sarcophilus harrisii*

*Haemolaelaps flagellatus*  
*Ornithonyssus dasyuri*  
*Diablicoptes sarcophilus*  
*Satanicoptes armatus*

*Antechinus swainsonii*

*Domrownyssus dentatus*  
*Gymnolaelaps annectans*  
*Laelapsella humi*  
*Neotrombicula novaehollandiae*

*Antechinus minimus*

*Domronyssus dentatus*  
*Gymnolaelaps annectans*  
*Neotrombicula novaehollandiae*  
*Trombicula quadriensis*

*Sminthopsis leucopus*

*Andreacarus radfordi*  
*Haemolaelaps flagellatus*  
*Guntheria quatuor*

*Rattus lutreolus*

*Gymnolaelaps annectans*  
*Laelaps assimilis*  
*Laelapsella humi*  
*Mesolaelaps australiensis*  
*Mesolaelaps bandicoota*  
*Guntheria quatuor*

*Rattus rattus*

*Gymnolaelaps annectans*  
*Haemolaelaps domrowi*  
*Laelaps assimilis*  
*Laelaps calabyi*  
*Mesolaelaps australiensis*  
*Echinonyssus butantanensis*  
*Ascoschoengastia rattus*

*Rattus norvegicus*

*Gymnolaelaps annectans*  
*Laelapsella humi*

*Hydromys chrysogaster*

*Andreacarus radfordi*  
*Gymnolaelaps annectans*  
*Laelapsella humi*  
*Mesolaelaps australiensis*  
*Mesolaelaps bandicoota*  
*Ascoschoengastia rattus*  
*Trombicula quadriensis*

*Mastacomys fuscus*

*Andreacarus anadema*  
*Andreacarus synoecus*  
*Gymnolaelaps annectans*  
*Laelaps assimilis*  
*Laelaps cybiala*  
*Laelapsella humi*

*Pseudomys higginsii*

*Andreacarus synoecus*  
*Laelaps calabyi*

*Mus musculus*

*Haemolaelaps domrowi*  
*Mesolaelaps australiensis*  
*Eulaelaps oudemansi*  
*Echinonyssus butantanensis*

*Lepus capensis*

*Gymnolaelaps anectans*

*Oryctolagus cuniculus*

*Gymnolaelaps annectans*  
*Mesolaelaps antipodanus*  
*Mesolaelaps australiensis*

*Nyctophilus geoffroyi*

*Trichonyssus womersleyi*  
*Spinturnix novaehollandiae*

*Chalinolobus gouldii*

*Trichonyssus womersleyi*

*Eptesicus sagittula*

*Trichonyssus caputmedusae*

*Eptesicus regulus*

*Spinturnix novaehollandiae*

*Eptesicus* sp.

*Trichonyssus womersleyi*

*Falsistrellus tasmaniensis*

*Trichonyssus caputmedusae*  
*Trichonyssus womersleyi*  
*Spinturnix novaehollandiae*

*Felis catus*

*Eulaelaps oudemansi*  
*Cheyletiella blakei*

*Arctocephalus pusillus*

*Orthohalarachne attenuata*

*Tachyglossus aculeatus*

*Haemolaelaps flagellatus*  
*Neotrembicula novaehollandiae*

*Ovis aries*

*Psorobia ovis*

*Sus scrofa*

*Demodex phylloides*

*Cavia porcellus*

*Trixacarus caviae*

*Homo sapiens*

*Ornithonyssus bursa*  
*Dermanyssus gallinae*

## BIRDS

*Eudyptula minor*

*Gymnolaelaps annectans*  
*Haemolaelaps fahrenheitzi*  
*Haemolaelaps flagellatus*  
*Haemolaelaps pachytilae*  
*Mesolaelaps australiensis*

*Pachyptila turtur*

*Haemolaelaps fahrenheitzi*  
*Haemolaelaps flagellatus*  
*Haemolaelaps pachyptilae*

*Puffinus tenuirostris*

*Gymnolaelaps annectans*  
*Haemolaelaps fahrenheitzi*  
*Haemolaelaps flagellatus*  
*Haemolaelaps pachyptilae*  
*Hypoaspis acme*  
*Laelapsella humi*  
*Mesolaelaps australiensis*

*Pelecanoides urinatrix**Haemolaelaps pachyptilae**Leucocarbo fuscescens**Neottialges tasmaniensis**Phalacrocorax carbo**Neottialges evansi**Rallus pectoralis**Rallinyssus gallinulae**Porzana tabuensis**Rallinyssus congolensis**Hydroprogne caspia**Haemolaelaps fahrenheitzi**Dacelo novaeguineae**Ornithonyssus sylvairum**Hirundo neoxena**Ornithonyssus sylviarum**Turdus merula**Ornithonyssus sylviarum**Pachycephala pectoralis**Ornithonyssus sylviarum*

<i>Megalurus gramineus</i>	<i>Ornithonyssus sylviarum</i>
<i>Anthochaera chrysoptera</i>	<i>Ornithonyssus sylviarum</i>
<i>Manorina melanocephala</i>	<i>Ornithonyssus sylviarum</i>
<i>Lichenostomus flavicollis</i>	<i>Dermanyssus hirundinis</i>
<i>Passer domesticus</i>	<i>Ornithonyssus sylviarum</i>
<i>Sturnus vulgaris</i>	<i>Ornithonyssus sylviarum</i>
<i>Artamus cyanopterus</i>	<i>Ornithonyssus sylviarum</i> <i>Neocheyletiella artami</i>
<i>Corvus tasmanicus</i>	<i>Knemidocoptes intermedius</i>
<i>Gallus domesticus</i>	<i>Ornithonyssus sylviarum</i> <i>Cytodites undus</i> <i>Caminopioptes cysticola</i>
<i>Serinus canaria</i>	<i>Ornithonyssus sylviarum</i> <i>Sternostoma trachea olum</i>

## REPTILES

<i>Egernia whitii</i>	<i>Eutrombicula vandiemeni</i>
<i>Leiopisma entrecasteauxii</i>	<i>Eutrombicula vandiemeni</i>
<i>Leiopisma metallicum</i>	<i>Eutrombicula vandiemeni</i>
<i>Leiopisma ocellatum</i>	<i>Eutrombicula vandiemeni</i>
<i>Leiopisma pretiosum</i>	<i>Ophionyssus scincorum</i>



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